

Faculty of Science
B.Sc. (Data Science) II-Year, CBCS –III Semester
Backlog Examinations -June/July, 2022
PAPER: Data Engineering with Python

Time: 3 Hours

Max Marks: 80

Section-A

- I. Answer any eight of the following (8x4=32 Marks)
1. What is Data Acquisition Pipeline?
 2. Write the different types of Files.
 3. Write short note on XML in Python.
 4. Name different Regular Expression Operations.
 5. Write the Special Characters used in Regular Expressions.
 6. Write short note on Named Groups in Python Regular Expression.
 7. How to create NumPy arrays using array() function.
 8. Explain slicing in Arrays.
 9. Write a short note on Broadcasting in Arrays.
 10. How to handle missing Data?
 11. Write different Plot Types.
 12. Write a short note on Reshaping Data.

Section-B

- II. Answer the following questions (4x12=48 Marks)
13. (a) Explain Data analysis Sequence in detail.
(OR)
(b) Explain Reading and Writing Binary Files with Python programs.
14. (a) Explain the processing of Texts in Natural Languages.
(OR)
(b) Explain different Regular Expression Methods.
15. (a) Explain the steps in setting up of a MySQL Database.
(OR)
(b) Explain Array Indexing in detail.
16. (a) Describe Pandas Data Structures.
(OR)
(b) Explain basic Plotting with PyPlot.
